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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. Oliver Kiehl 2003 P 52361 US 6303 09/30/2003 10/674,859 12/08/2006 **EXAMINER** 48154 7590 SLATER & MATSIL LLP TRAN, KHAI 17950 PRESTON ROAD ART UNIT PAPER NUMBER **SUITE 1000** DALLAS, TX 75252 2611 DATE MAILED: 12/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			- 51					
	Application No.	Applicant(s)						
	10/674,859	KIEHL, OLIVER						
Office Action Summary	Examiner	Art Unit						
	KHAI TRAN	2611						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE one MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on 30 Se	eptember 2003.							
,	action is non-final.							
3) Since this application is in condition for allowar			e merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.						
Disposition of Claims								
4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-23 are subject to restriction and/or expressions.	vn from consideration.							
Application Papers								
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C						
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National	Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Scheols	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate						

Application/Control Number: 10/674,859

Art Unit: 2611

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- I. Claims 1-6, drawn to a method for minimizing the number of appearances of a given state in a code word generated from data word, classified in class 375, subclass 239.
- II. Claims 7-20, and 21-23, drawn to a transmission system, classified in class 375, subclass 259.
- 2. The inventions are distinct, each from the other because:

Inventions I, and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are claims 1-6 drawn to a method for minimizing the number of appearances of a given state in a code word generated from data word; claims 7-20, and 21-23 drawn to a transmission system.

3. Because these inventions are distinct for the reasons given above and have required a separate status in the art as shown by their different classification and by their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/674,859

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Managaratu KHAI TRAN

Primary Examiner

Art Unit 2611

KT December 6, 2006

PTO/SB/08A (05-03)
Approved for use through 05/31/2003. OMB 0651-0031
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U.S. PATENT DOCUMENTS						
Examiner Cite No.	Cito	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
		Number - Kind Code ^{2 (Filmown)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
ΚT	<u> </u>	1	US-4,667,337	05-19-1987	Fletcher	
		2	US-5,025,256	08-18-1991	Stevens	
		3	US-5,481,555	01-02-1996	Wade, et al.	
		4	US-5,572,736	11-05-1986	Curran	
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\mathbf{L}	1	6	US-5,890,005	03-30-1999	Lindholm	
		7	US-6,243,779 B1	08-05-2001	Devanney, et al.	
K:	T	8	US-8,553,445 B1	04-22-2003	Drapkin, et al.	
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FOREIGN PATENT DOCUMENTS						
		Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	Г
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazina, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	12	
KT	9	MACRI, J., "Graphics DDR Present and Future," JEDEX San Jose, a JEDEC Conference, March 25, 2003.		

Examiner	/Khai Tran/	Date	11/20/2026
Signature	/ Audi Ilau/	Considered	11/30/2006

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Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	U.S. PATENT DOCUMENTS							
Examiner	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
Initials*		Number - Kind Code ^{2 (# known)}			rigules Appeal			
KT	1	US-8,026,124	02-15-2000	Lee, et al.				
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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
KT	3	MIRCEA, R.S., "Bus-Invert Coding for Low-Power I/O," IEEE Transactions on Very Large Scale Integration (VLSI) Systems, March, 1995, pp. 49–58, Vol. 3, No. 1, IEEE, Inc., New York, US.				
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